

SEQUENCE LISTING

<110> Castrillon, Diego H.

<120> COMPOSITIONS AND METHODS FOR THE IMPROVED DIAGNOSIS OF GERM CELL TUMORS

<130> B0801/7195/ERP/KA

<150> U.S. 60/166,394

<151> 1999-11-18

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VS 2172

<212> DNA

<213> Homo Sapiens

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2185

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Val Phe Val Glu Thr Lys Lys Ala Asp Phe Thr Ala Thr Phe Leu  
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Glu Ile Ala Phe Ser Thr Tyr Ile Pro Gly Phe Ser Gly Ser Thr Arg  
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Gly Asn Val Phe Ala Ser Val Asp Thr Arg Lys Gly Lys Ser Thr Leu  
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Pro Ser Gly Arg Asp Asp Phe Met Arg Ser Gly Phe Pro Ser Gly Arg

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Phe Gly Leu Gly Arg Pro Asn Ser Glu Ser Asp Gln Asp Gln Gly Thr  
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Gln Cys Gly Gly Phe Leu Val Leu Gly Lys Pro Ala Ala Ser Asp  
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Ser Trp Lys Ser Glu Thr Glu Gly Gly Glu Ser Ser Asp Ser Gln Gly  
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Pro Lys Val Thr Tyr Ile Pro Pro Pro Pro Glu Asp Glu Asp Ser  
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His Arg Ile Gly Arg Thr Gly Arg Cys Gly Asn Thr Gly Arg Ala Ile  
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Lys Val Leu Ser Asp Ala Gln Gln Asp Val Pro Ala Trp Leu Glu Glu  
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Ile Ala Phe Ser Thr Tyr Val Pro Pro Ser Phe Ser Ser Ser Thr Arg  
675 680 685  
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35 40 45  
Gly Pro Ser Gly Arg Asp His Phe Met Arg Ser Gly Phe Ser Ser Gly  
50 55 60  
Arg Asn Leu Gly Asn Arg Asp Ile Gly Glu Ser Ser Lys Arg Glu Thr  
65 70 75 80  
Thr Ser Thr Thr Gly Gly Phe Gly Arg Gly Lys Gly Phe Gly Asn Arg  
85 90 95  
Gly Phe Leu Asn Asn Lys Phe Glu Glu Gly Asp Ser Ser Gly Phe Trp  
100 105 110  
Lys Glu Ser Thr Asn Asp Cys Glu Asp Thr Gln Thr Arg Ser Arg Gly  
115 120 125  
Phe Ser Lys Arg Gly Gly Tyr Pro Asp Gly Asn Asp Ser Glu Ala Ser  
130 135 140  
Gly Pro Phe Arg Arg Gly Gly Arg Asp Ser Glu Tyr Asp Gln Asp Gln  
145 150 155 160  
Gly Ser Gln Arg Gly Gly Leu Phe Gly Ser Arg Lys Pro Ala Ala  
165 170 175  
Ser Asp Ser Gly Ser Gly Asp Thr Phe Gln Ser Arg Ser Gly Asn Ala  
180 185 190

Arg Gly Ala Tyr Lys Gly Leu Asn Glu Glu Val Val Thr Gly Ser Gly  
195 200 205  
Lys Asn Ser Trp Lys Ser Glu Ala Glu Gly Gly Glu Ser Ser Asp Ile  
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Gln Gly Pro Lys Val Thr Tyr Ile Pro Pro Pro Pro Glu Asp Glu  
225 230 235 240  
Asp Ser Ile Phe Ala His Tyr Gln Thr Gly Ile Asn Phe Asp Lys Tyr  
245 250 255  
Asp Thr Ile Leu Val Glu Val Ser Gly His Asp Ala Pro Pro Ala Ile  
260 265 270  
Leu Thr Phe Glu Glu Ala Asn Leu Cys Gln Thr Leu Asn Asn Asn Ile  
275 280 285  
Ala Lys Ala Gly Tyr Thr Lys Leu Thr Pro Val Gln Lys Tyr Ser Ile  
290 295 300  
Pro Ile Val Leu Ala Gly Arg Asp Leu Met Ala Cys Ala Gln Thr Gly  
305 310 315 320  
Ser Gly Lys Thr Ala Ala Phe Leu Leu Pro Ile Leu Ala His Met Met  
325 330 335  
Arg Asp Gly Ile Thr Ala Ser Arg Phe Lys Glu Leu Gln Glu Pro Glu  
340 345 350  
Cys Ile Ile Val Ala Pro Thr Arg Glu Leu Ile Asn Gln Ile Tyr Leu  
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Glu Ala Arg Lys Phe Ser Phe Gly Thr Cys Val Arg Ala Val Val Ile  
370 375 380  
Tyr Gly Gly Thr Gln Phe Gly His Ser Ile Arg Gln Ile Val Gln Gly  
385 390 395 400  
Cys Asn Ile Leu Cys Ala Thr Pro Gly Arg Leu Met Asp Ile Ile Gly  
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Lys Glu Lys Ile Gly Leu Lys Gln Val Lys Tyr Leu Val Leu Asp Glu  
420 425 430  
Ala Asp Arg Met Leu Asp Met Gly Phe Gly Pro Glu Met Lys Lys Leu  
435 440 445  
Ile Ser Cys Pro Gly Met Pro Ser Lys Glu Gln Arg Gln Thr Leu Leu  
450 455 460  
Phe Ser Ala Thr Phe Pro Glu Glu Ile Gln Arg Leu Ala Gly Glu Phe  
465 470 475 480  
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485 490 495  
Cys Arg Asp Val Gln Gln Ser Ile Leu Gln Val Gly Pro Val Phe Lys  
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Met Val Phe Val Glu Thr Lys Lys Ala Asp Phe Ile Ala Thr Phe  
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Pro Val Leu Val Ala Thr Ser Val Ala Ala Arg Gly Leu Asp Ile Glu  
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Tyr Val His Arg Ile Gly Arg Thr Gly Arg Cys Gly Asn Thr Gly Arg  
610 615 620  
Ala Ile Ser Phe Phe Asp Thr Glu Ser Asp Asn His Leu Ala Gln Pro  
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<212> PRT  
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Ser Phe Gly Asn Arg Gly Gly Tyr Arg Ser Glu Arg Ser Arg Pro Ser  
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Asn Phe Asn Arg Gly Ser Arg Thr Glu Arg Gly Arg Gly Arg Gly Phe  
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Gly Thr Asn Arg Asn Asp Asn Tyr Ser Ser Glu Arg Asp Val Phe Gly  
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Asp Asp Glu Arg Asp Gln Arg Arg Gly Phe Pro Gly Arg Gly Tyr  
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Gly Gly Phe Asn Asn Ser Asp Thr Gly Gly Arg Gly Arg Gly Gly  
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Arg Gly Gly Gly Ser Gln Tyr Gly Gly Tyr Lys Gly Arg Asn Glu Glu  
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Tyr Asp Glu Ile Leu Val Asp Val Thr Gly Lys Asp Val Pro Pro Ala  
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275 280 285  
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Ile Pro Ile Ile Met Ala Gly Arg Asp Leu Met Ala Cys Ala Gln Thr  
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325 330 335  
Met Asn Glu Gly Ile Thr Ala Ser Gln Tyr Leu Gln Leu Gln Glu Pro

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Leu Met Thr Lys Pro Gly Met Pro Thr	Lys Glu Lys Arg Gln Thr Leu		
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Lys Met Glu Lys Leu Leu Glu Ile Leu	Lys Ser Ser Glu Lys Glu Arg		
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Cys Thr Val Ile Val Cys Thr Ala Val	Ala Ala Arg Gly Leu Asp Ile		
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Glu Asn Val Gln His Val Ile Asn Tyr	Asp Val Pro Lys Glu Val Asp		
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Glu Tyr Val His Arg Ile Gly Arg Thr	Gly Cys Gly Asn Thr Gly		
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Lys Ala Thr Ser Phe Phe Asn Val Gln	Asp Asp His Val Ile Ala Arg		
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Pro Leu Val Lys Ile Leu Thr Asp Ala	His Gln Glu Val Pro Ala Trp		
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<212> PRT  
<213> Danio Reio

<400> 6

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Gly Ser Ser Trp Lys Met Thr Gly Asp	Ser Phe Arg Gly Arg Gly Gly			
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Glu Ile Asp Glu Asn Gly Ser Asp Gly Gly Trp Asn Gly Gly Glu Ser  
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245 250 255  
Pro Lys Ala Ile Met Thr Phe Glu Ala Gly Leu Cys Asp Ser Leu  
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Ser Lys Asn Val Ser Lys Ser Gly Tyr Val Lys Pro Thr Pro Val Gln  
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Lys His Gly Ile Pro Ile Ile Ser Ala Gly Arg Asp Leu Met Ala Cys  
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Gln Glu Pro Glu Ala Ile Ile Val Ala Pro Thr Arg Glu Leu Ile Asn  
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Gln Ile Tyr Leu Glu Ala Arg Lys Phe Ala Tyr Gly Thr Cys Val Arg  
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Pro Val Val Val Tyr Gly Gly Ile Asn Thr Gly Tyr Thr Ile Arg Glu  
370 375 380  
Val Leu Lys Gly Cys Asn Val Leu Cys Ala Thr Pro Gly Arg Leu His  
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Asp Leu Ile Gly Arg Gly Lys Ile Gly Leu Ser Lys Val Arg Tyr Leu  
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420 425 430  
Met Arg Lys Leu Val Ala Ser Pro Gly Met Pro Ser Lys Glu Lys Arg 44  
435 440 445  
Gln Thr Leu Met Phe Ser Ala Thr Tyr Pro Glu Asp Ile Gln Arg Met  
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Ala Ala Asp Phe Leu Lys Val Asp Tyr Ile Phe Leu Ala Val Gly Val  
465 470 475 480  
Val Gly Gly Ala Cys Ser Asp Val Glu Gln Thr Ile Val Gln Val Asp  
485 490 495  
Gln Tyr Ser Lys Arg Asp Gln Leu Leu Glu Leu Leu Arg Ala Thr Gly  
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Asn Glu Arg Thr Met Val Phe Val Glu Thr Lys Arg Ser Ala Asp Phe  
515 520 525  
Ile Ala Thr Phe Leu Cys Gln Glu Lys Ile Ser Thr Thr Ser Ile His  
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Gly Asp Arg Glu Gln Arg Glu Arg Glu Lys Ala Leu Ser Asp Phe Arg  
545 550 555 560  
Leu Gly His Cys Pro Val Leu Val Ala Thr Ser Val Ala Ala Arg Gly  
565 570 575  
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580 585 590  
Ser Ile Asp Glu Tyr Val His Arg Ile Gly Arg Thr Gly Arg Cys Gly  
595 600 605  
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Pro Lys Trp Leu Glu Glu Val Ala Phe Ser Ala His Gly Thr Thr Gly  
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Glu Glu Arg Gly Gly Glu Arg Gly Glu Arg Gly Asp Gly Gly Phe Ala  
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Glu Asp Val Glu Arg Lys Arg Glu Phe Tyr Ile Pro Pro Glu Pro Ser  
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Ile Asp Asn Val Asn Lys Ser Gly Phe Lys Ile Pro Thr Pro Ile Gln  
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Lys Cys Ser Ile Pro Val Ile Ser Ser Gly Arg Asp Leu Met Ala Cys  
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